

Method and Apparatus for Transmission Data and Voice
Abstract of the Disclosure

5 A modem-controller for auto switching and
controlling the transmission and receiving of voice and
error-free transmission of standard data signals, fax
data signals and voice communications over telephone
line service, radio frequency networks, satellite
systems, as well as cellular telephone systems is
10 provided and is operatively connected to computers or
other types of data terminal equipment, a method to
select a data access arrangement (DAA) which either
connects to a telephone line, satellite system or a
cellular telephone, and another method to bypass the DAA
15 and select and control radio frequency telemetry modules
or packet radios. The apparatus includes analog switches
that receive control signals from the micro-controller
for controlling and switching the audio or data path of
the internal voice board and the analog signals from the
20 data pump to and from a radio frequency transceiver via
the radio frequency transceiver interface/logic board, a
cellular telephone transceiver via the cellular
telephone transceiver interface, a telephone landline
via a DAA, a satellite system via a telephone landline
25 through the DAA. Therefore, voice signals from the voice
board, standard data or fax data from a computer or
other type of data terminal equipment device can be sent
over telephone landlines, wireless radio frequency
networks, satellite system networks and cellular
30 telephone system networks. The operation of the
modem-controller is divided into three modes comprising
a command mode, a data mode and an escape mode. The
software is a set of data communication protocols which

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provide error-free communication of data and define a file transfer protocol at the application layer, the session protocol and the link protocol.

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